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☐ 1. Document ID: US 20050276092 A1

L14: Entry 1 of 2

File: PGPB

Dec 15, 2005

PGPUB-DOCUMENT-NUMBER: 20050276092

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050276092 A1

TITLE: Virtual mass storage device for server management information

PUBLICATION-DATE: December 15, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hansen, Peter A.	Cypress	TX	US
Rhodes, Thomas D.	Woodlands	TX	US
Cartes, Andrew C.	Cypress	TX	US
Brown, Andrew	Houston	TX	US

US-CL-CURRENT: [365/149](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draw Ds
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☐ 2. Document ID: US 6971046 B1

L14: Entry 2 of 2

File: USPT

Nov 29, 2005

US-PAT-NO: 6971046

DOCUMENT-IDENTIFIER: US 6971046 B1

TITLE: System and method for performing input/output diagnostics

DATE-ISSUED: November 29, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Johnson; Craig B.	Shoreview	MN		
Crandall; Carl R.	Hugo	MN		
Park; Haeng D.	St. Paul	MN		

US-CL-CURRENT: [714/35](#); [714/25](#)

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☐ 1. Document ID: US 20050091239 A1

L11: Entry 1 of 7

File: PGPB

Apr 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050091239

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050091239 A1

TITLE: Queue bank repository and method for sharing limited queue banks in memory

PUBLICATION-DATE: April 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ward, Wayne D.	New Brighton	MN	US
Johnson, David R.	Oakdale	MN	US
Johnson, David C.	Roseville	MN	US
Caldarale, Charles R.	Minneapolis	MN	US

US-CL-CURRENT: [707/100](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 2. Document ID: US 6978233 B1

L11: Entry 2 of 7

File: USPT

Dec 20, 2005

US-PAT-NO: 6978233

DOCUMENT-IDENTIFIER: US 6978233 B1

TITLE: Method for emulating multi-processor environment

DATE-ISSUED: December 20, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Burns; John J.	Bountiful	UT		

US-CL-CURRENT: [703/27](#); [703/21](#), [703/23](#), [712/208](#), [712/213](#), [712/227](#), [712/41](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 3. Document ID: US 6944863 B1

L11: Entry 3 of 7

File: USPT

Sep 13, 2005

US-PAT-NO: 6944863

DOCUMENT-IDENTIFIER: US 6944863 B1

TITLE: Queue bank repository and method for sharing limited queue banks in memory

DATE-ISSUED: September 13, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ward; Wayne D.	New Brighton	MN		
Johnson; David R.	Oakdale	MN		
Johnson; David C.	Roseville	MN		
Caldarale; Charles R.	Minneapolis	MN		

US-CL-CURRENT: 719/310

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 4. Document ID: US 6128679 A

L11: Entry 4 of 7

File: USPT

Oct 3, 2000

US-PAT-NO: 6128679

DOCUMENT-IDENTIFIER: US 6128679 A

TITLE: Computer for executing I/O instructions, by emulation, in a foreign application program wherein the emulator result thread is blocked from running between processes

DATE-ISSUED: October 3, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Beale; Andrew Ward	Aliso Viejo	CA		
Lee; Bong Jae	Laguna Niguel	CA		
Ebersole; Dwayne Eugene	Lancaster	PA		

US-CL-CURRENT: 710/62; 709/230, 709/249, 710/11, 710/63, 719/330

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 5. Document ID: US 5991757 A

L11: Entry 5 of 7

File: USPT

Nov 23, 1999

US-PAT-NO: 5991757
DOCUMENT-IDENTIFIER: US 5991757 A

TITLE: Method and system for searching an array for an array value

DATE-ISSUED: November 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dahl; Stephen A.	Rochester	MN		
Endicott; John C.	Rochester	MN		
Heyrman; Peter J.	Rochester	MN		
Kirkman; R. Karl	Rochester	MN		
Mustain; Richard G.	Rochester	MN		
Peterson; Jon H.	Rochester	MN		

US-CL-CURRENT: 707/3; 703/26, 707/100

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMK	Draw D
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☐ 6. Document ID: US 5949985 A

L11: Entry 6 of 7

File: USPT

Sep 7, 1999

US-PAT-NO: 5949985
DOCUMENT-IDENTIFIER: US 5949985 A

TITLE: Method and system for handling interrupts during emulation of a program

DATE-ISSUED: September 7, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dahl; Stephen A.	Rochester	MN		
Endicott; John C.	Rochester	MN		
Heyrman; Peter J.	Rochester	MN		
Kirkman; R. Karl	Rochester	MN		
Mustain; Richard G.	Rochester	MN		
Peterson; Jon H.	Rochester	MN		

US-CL-CURRENT: 703/26; 710/262, 712/218, 712/244, 717/134, 717/138

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMK	Draw D
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☐ 7. Document ID: US 5819063 A

L11: Entry 7 of 7

File: USPT

Oct 6, 1998

US-PAT-NO: 5819063

DOCUMENT-IDENTIFIER: US 5819063 A

**** See image for Certificate of Correction ****TITLE: Method and data processing system for emulating a program

DATE-ISSUED: October 6, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dahl; Stephen A.	Rochester	MN		
Endicott; John C.	Rochester	MN		
Heyrman; Peter J.	Rochester	MN		
Kirkman; R. Karl	Rochester	MN		
Mustain; Richard G.	Rochester	MN		
Peterson; Jon H.	Rochester	MN		

US-CL-CURRENT: 703/27

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Keywords	Drawings
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Term	Documents
FIRST	3951458
FIRSTS	807
INSTRUCTION	219171
INSTRUCTIONS	415509
PROCESSOR	536390
PROCESSORS	178168
(7 AND ((INSTRUCTION ADJ PROCESSOR) WITH FIRST)).PGPB,USPT.	7
(L7 AND (FIRST WITH INSTRUCTION PROCESSOR)).PGPB,USPT.	7

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☐ 1. Document ID: US 6971046 B1

L9: Entry 1 of 5

File: USPT

Nov 29, 2005

US-PAT-NO: 6971046

DOCUMENT-IDENTIFIER: US 6971046 B1

TITLE: System and method for performing input/output diagnostics

DATE-ISSUED: November 29, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Johnson; Craig B.	Shoreview	MN		
Crandall; Carl R.	Hugo	MN		
Park; Haeng D.	St. Paul	MN		

US-CL-CURRENT: 714/35; 714/25

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	RMK	Draw De
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☐ 2. Document ID: US 5088033 A

L9: Entry 2 of 5

File: USPT

Feb 11, 1992

US-PAT-NO: 5088033

DOCUMENT-IDENTIFIER: US 5088033 A

**** See image for Certificate of Correction ****

TITLE: Data processing system emulation in a window with a coprocessor and I/O emulation

DATE-ISSUED: February 11, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Binkley; Joseph H.	Palo Alto	CA		
Caro; Perry A.	Palo Alto	CA		
Dillon; John B.	Palo Alto	CA		
Fay; Charles R.	Long Beach	CA		
Gibbons; Jonathan	Mountain View	CA		
Hooks; Hilary N.	Newark	CA		

Kadifa; Abdo G.	Sunnyvale	CA
Lee; Jeffery W.	Sunnyvale	CA
Lynch; William C.	Palo Alto	CA
Mock; Clayton W.	Redwood City	CA
Neely; Everett T.	Montara	CA
Tallan; Michael L.	Mountain View	CA
Thompson; Geoffrey O.	Palo Alto	CA
Vukkadala; Gaya	Sunnyvale	CA
Wick; John D.	Palo Alto	CA
Woods; Donald R.	Los Altos	CA

US-CL-CURRENT: 703/24

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWC	Draw De
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☐ 3. Document ID: US 5062042 A

L9: Entry 3 of 5

File: USPT

Oct 29, 1991

US-PAT-NO: 5062042

DOCUMENT-IDENTIFIER: US 5062042 A

TITLE: System for managing data which is accessible by file address or disk address via a disk track map

DATE-ISSUED: October 29, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Binkley; Joseph H.	Palo Alto	CA		
Caro; Perry A.	Palo Alto	CA		
Fay; Charles R.	Long Beach	CA		
Lee; Jeffery W.	Sunnyvale	CA		
Neely; Everett T.	Montara	CA		
Thompson; Geoffrey O.	Palo Alto	CA		
Vukkadala; Gaya	Sunnyvale	CA		

US-CL-CURRENT: 707/205

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWC	Draw De
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☐ 4. Document ID: US 4920481 A

L9: Entry 4 of 5

File: USPT

Apr 24, 1990

US-PAT-NO: 4920481

DOCUMENT-IDENTIFIER: US 4920481 A

TITLE: Emulation with display update trapping

DATE-ISSUED: April 24, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Binkley; Joseph H.	Palo Alto	CA		
Caro; Perry A.	Palo Alto	CA		
Dillon; John B.	Palo Alto	CA		
Fay; Charles R.	Long Beach	CA		
Gibbons; Jonathan	Mountain View	CA		
Hooks; Hilary N.	Newark	CA		
Kadifa; Abdo G.	Palo Alto	CA		
Lee; Jeffery W.	Palo Alto	CA		
Lynch; William C.	Palo Alto	CA		
Mock; Clayton W.	Redwood City	CA		
Neely; Everett T.	Montara	CA		
Tallan; Michael L.	Mountain View	CA		
Thompson; Geoffrey O.	Palo Alto	CA		
Vukkadala; Gaya	Sunnyvale	CA		
Wick; John D.	Palo Alto	CA		
Woods; Donald R.	Los Altos	CA		

US-CL-CURRENT: 703/26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Claims	Drawings	Drawings
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☐ 5. Document ID: US 4532587 A

L9: Entry 5 of 5

File: USPT

Jul 30, 1985

US-PAT-NO: 4532587

DOCUMENT-IDENTIFIER: US 4532587 A

TITLE: Single chip processor connected to an external memory chip

DATE-ISSUED: July 30, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Roskell; Derek	Northants			GB2
Schabowski; John V.	Houston	TX		
Guttag; Karl M.	Houston	TX		
McDonough; Kevin C.	Houston	TX		
Shore; Brian	Bedford			GB2
Preston; Thomas	Bedford			GB2

US-CL-CURRENT: 712/38

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Claims	Drawings	Drawings
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☐ 1. Document ID: US 6971046 B1

L2: Entry 1 of 2

File: USPT

Nov 29, 2005

US-PAT-NO: 6971046

DOCUMENT-IDENTIFIER: US 6971046 B1

TITLE: System and method for performing input/output diagnostics

DATE-ISSUED: November 29, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Johnson; Craig B.	Shoreview	MN		
<u>Crandall</u> ; Carl R.	Hugo	MN		
Park; Haeng D.	St. Paul	MN		

US-CL-CURRENT: 714/35; 714/25

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	FIGS	Draw D
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☐ 2. Document ID: US 6789133 B1

L2: Entry 2 of 2

File: USPT

Sep 7, 2004

US-PAT-NO: 6789133

DOCUMENT-IDENTIFIER: US 6789133 B1

TITLE: System and method for facilitating use of commodity I/O components in a legacy hardware system

DATE-ISSUED: September 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Crandall</u> ; Carl R.	Hugo	MN		
DeVries; Thomas N.	Apple Valley	MN		
Johnson; Craig B.	Shoreview	MN		
Kessler; Joseph E.	St. Anthony	MN		
Otto; Michael C.	Stillwater	MN		
Park; Haeng D.	Shoreview	MN		

Heideman; Michael J. New Brighton MN

US-CL-CURRENT: [710/5](#); [709/238](#), [710/309](#), [710/39](#), [710/56](#), [710/65](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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Term	Documents
CRANDALL	3288
CRANDALLS	0
IOP	4046
IOPS	821
EMULAT\$	0
EMULAT	1
EMULATABLE	25
EMULATAR	1
EMULATATION	1
EMULATCRS	1
EMULATD	1
(CRANDALL.IN. AND EMULAT\$ AND IOP).PGPB,USPT.	2

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